

2. ☐ 2342 (Item 1 from file: 351)

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1. 406178

WPI App No.: 1999-14129, 1174416

**Determination of lipid oxidisability - by fluorescent assay
using a diphenylhexatriene marker initiated with copper²⁺ ions**

Inventor: ARNOLD; HERMUTTER A; HERRER; J; LICHENBERG; J
INVENTOR:

Inventor: HERMUTTER A; HERRER J; LICHENBERG J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No.	Kind	Date	Applica. No.	Kind	Date	Week
AT 9401875	A	19990215	AT 941875	A	19941004	199916
AT 405693	B	19990815	AT 941875	A	19941004	199937

Priority Applications (No Type Date): AT 941875 A 19941004

Patent Details:

Patent No.: Kind Loc. P: Main Int. Filing Date:

AT 9401875 A 19990215

AT 405693 B 19990815 Previous Intl. Patent: AT 941875

Abstract (Basic): AT 9401875 A

Method for determining the oxidisability of lipids comprising incorporating diphenylhexatriene (DPH) or lipid conjugates containing covalently bound DPH into lipoproteins, initiating oxidation of these carriers with Cu²⁺ or other oxidation initiators, and measuring the decrease in fluorescence intensity over time.

USE - To diagnose or determine predisposition to atherosclerosis, to primary heart disease; to diagnose or determine predisposition for arterio-vascular disease, cancer or Alzheimer's disease; or to determine the oxidative stability of a food.

ADVANTAGE - The method gives results that are in accord with the results of non-fluorescent assays; is very sensitive; can be applied to complex biological systems, e.g. serum, cells or lipids; can distinguish between different lipids with regard to oxidisability and ease of oxidation; and can be used for a time analysis of multiple samples using a plate reader.

Dwg. 0/0

Derwent Class: B1; I1; I2; B14; I4; I5

International Patent Class (Main): C12N-1/04

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1. ☐ 1-4-1 Item 1 from title: 345

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Basic Patent (No,Kind,Date): AT 941875 A 19940215

PATENT FAMILY:

AT 941875 A

Patent (No,Kind,Date): AT 941875 A 19940215

METHOD OF DETERMINING THE LIPOPHILICITY OF A LIPOPHILE German

Patent Assigned: HERMUTTER ALBIN (A) ; HOFFER-BERALL (A) ;
 LICHTENBERG DAW (A)

Appl. Inventor: HERMUTTER ALBIN (A) ; HOFFER-BERALL (A) ;
 LICHTENBERG DAW (A)

Priority (No,Kind,Date): AT 941875 A 19941104

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